PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting at the intersection of MD 235 (Three Notch Rd) and the Walmart Entrance in St. Mary's County. The existing pedestrian signal heads shall be replaced by Countdown pedestrian signal heads with audible pushbuttons. MD 235 (Three Notch Rd) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA four-phase, fully-actuated mode, with the MD 235 (Three Notch Rd) approaches running concurrently. The Exclusive left turn phase for the northbound approach of MD 235 (Three Notch Rd) shall remain in operation. The destrict phase across Walmart Entrance on recall shall now be a countdown. Indeed the phase across Walmart Entrance on recall shall now be a Countdown pedestrian phase with audible pushbuttons. The pre emption phase for both approaches of MD 235 (Three Notch Rd) shall remain in operation. The Walmart Entrance approach shall continue to operate in its own phase.
- 2. The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be maintained at this intersection.
- 3. SHA signal shop shall install APS control unit into controller cabinet. The Contractor shall deliver the Control Unit and audible pushbuttons to the SHA Signal Shop for testing and programming. Contact Mr. Ed Rodenhizer (410) 787–7652.

III. SPECIAL NOTES

- 1. The Contractor shall be responsible for terminating all signal cables. to the appropriate terminals and shall properly label each cable.
- 2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787–7652 seventy—two hours in advance of intended work.
- 3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- 4. APS will function as follows:

FOR WALMART ENTRANCE

- When pedestrian locates and presses pushbutton for an extended time, the pushbutton unit will be Wait to cross Walmart entrance.
- b. When WALK phase begins, the message will be a rapid tick which will last for the duration of the WALK phase.

The contact persons for District #5 are as follows:

Ms. Kim Tran Assistant District Engineer - Traffic Phone: (410) 841-1003

Mr. Andre Futrell Assistant District Engineer - Maintenance Phone: (410) 841-1002

Mr. John Mays Assistant District Engineer - Utility Phone: (410) 841-1005

Mr. Richard L. Daff, Sr. Chief. Traffic Operations Division Phone: (410) 787-7630

Mr. Ed Rodenhizer Signal Shop 410-787-7652

Mr. Sonny Bailey Sign Shop 410-787-7670

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO. DESCRIPTION

QUANTITY

Sheet aluminum signs to consist of: 1.5 SF (mast arm or pole mount)

Pedestrian education R10-3(1) 2 EA sign. (Note: Sign to read "PUSHBUTTON TO CROSS WALMART ENTRANCE')

EQUIPMENT LIST (CONT.)

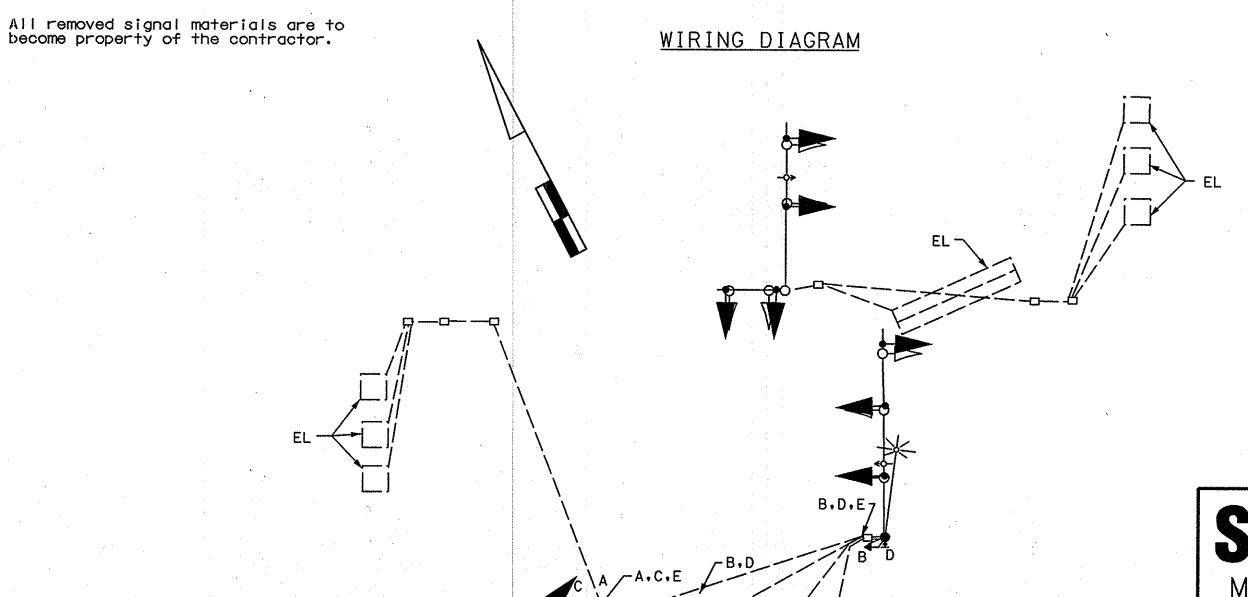
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

	TTEL			A Company
•	I TEM NO.	DESCRIPTION	QUAN	TITY
	1001	Maintenance of traffic per assignment.	1	EA
	2002	Test Pit Excavation	2	C.Y.
	5003	Removal of existing permanent pavement line markings	15	L.F.
	5005	12" white heat applied permanent preformed thermoplastic pavement marking.	50	L.F.
-	6002	Standard type A combination curb and gutter 12" gutter pan 8" depth.	65	L.F.
	6004	4" concrete sidewalk.	560	S.F.
	6005	Detectable warning surfaces	44	S.F.
	8001	12" LED Signal Head Section	27	ĒΑ
	8002	2 wire Central Control unit	1	EA
	8007	Audible/tactile pedestrian pushbutton station & signs.	2	EA
	8014	LED 16" countdown pedestrian signal heads.	2	EA
	8022	Remove and dispose of existing material & equipment per assignment. (Paid under MD 235 @ Macarthur)	1	EA
	8034	Schedule 80 rigid PVC conduit up tp 4" - trenched.	15	L.F.
	8038	No. 6 AWG stranded bare copper ground wire.	20	L.F.
	8046	Install overhead sign.	1.5	S.F.
	8056	Electrical cable - 2 conductor (No. 14 AWG).	125	L.F.
٠	8058	Electrical cable – 5 conductor (No. 14 AWG).	140	L.F.

PHASE CHART

PHASE 1 & 6	R	R	← G-	← G	◆ -G-	G	G	← R-	∢ -R-	DW	DW	
1 & 6 CHANGE	R	R	← Y	← Y-	← Y-	G	G	4- R−	← R-	DW	DW	-
PHASE 2 & 6	G	G	← R-	∢- R-	◆ R-	G	G	◆- R-	← R-	WK	WK	
PED CLEAR / COUNTDOWN	G	G	◆ R-	4 -R-	← R-	G	G	← R-	4 -R	FL/DW	FL/DW	
2 & 6 CHANGE	Y	Y	◆- R-	← R-	← R	Y	Y	← R-	4 -R−	D₩	DW	<u>-</u>
PHASE 4	R	R	∢ -R-	4 -R−	4 -R−	R	R	◆ G-	← G-	DW	DW	
4 CHANGE	R	R	← R-	4 -R−	4 -R−	R	R	← Y-	← Y	DW	DW	-
PRE EMPT 1	G	G	∢- R−	4 -R−	4 -R	G	G-	4- R	← R-	DW .	DW	
PRE EMPT 1 CHANGE	Y	Y	← R-	4 -R−	4 -R−	Y	.Y	← R	4 -R−	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/ ≪ R-	FL/ ∢ -R-	FL/ ← R-	FL/Y	FL/Y	FL/ ← R-	FL/ ∢ -R-	DARK	DARK	<u></u>

EQUIPMENT TO BE REMOVED



SMECO 40-1

WIRING KEY

A 5-CONDUCTOR ELECTRICAL B CABLE (NO. 14 A.W.G)

C) 2-CONDUCTOR ELECTRICAL D) CABLE (NO. 14 A.W.G)

E - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

EL-LOOP WIRE (NO. 14 A.W.G.)
EXISTING

ES-EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY SMECO

TOD NO:AT913-15 SHA NO:SM361A51/C51 MD235@MACARTHUR BLVD/ WAL-MART ENTRANCE

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STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

MD 235 (THREE NOTCH RD) AND WALMART ENTRANCE

LEXINGTON. MARYLAND

GENERAL	L INFORMATION SHEET
SCALE <u>NONE</u> DATE _	6/05/07 CONTRACT NO. AT9365185
DESIGNED BY J ALLEN	COUNTY ST. MARY'S

DESIGNED BY J ALLEN DRAWN BY ROB CICCHINI LOGMILE 18023515.58

TIMS NO. 1968

TS NO. 3842A DRAWING NO. 2 OF 2

PLOTTED: WEDNESDAY, JANUARY Ø9, 2008 AT 2:24:41 PM FILE: 5042F_WALMARTGI.DGN